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1 [A protocol for anonymous communication over the Internet](#)

Clay Shields, Brian Neil Levine

 November 2000 **Proceedings of the 7th ACM conference on Computer and communications security**

 Full text available: [pdf\(720.32 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [Layered transmission and caching for the multicast session directory service](#)

Andrew Swan, Steven McCanne, Lawrence A. Rowe

 September 1998 **Proceedings of the sixth ACM international conference on Multimedia**

 Full text available: [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [Building shared trees using a one-to-many joining mechanism](#)

Ken Carlberg, Jon Crowcroft

 January 1997 **ACM SIGCOMM Computer Communication Review**, Volume 27 Issue 1

 Full text available: [pdf\(631.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper presents a new approach for building shared trees which have the capability of providing multiple routes from the joining node onto an existing tree. The approach follows a design parameter of CBT and PIM in that it operates independently of any unicast routing protocol. However, a paradigm shift is introduced such that trees are built in an on-demand basis through the use of a one-to-many joining mechanism. In addition, the paper presents optimisations of the new mechanism to help co ...

4 [The cache location problem](#)

P. Krishnan, Danny Raz, Yuval Shavitt

 October 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 5

 Full text available: [pdf\(470.11 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
Keywords: location problem, mirror placement, transparent cache

5 [Challenges for nomadic computing: mobility management and wireless communications](#)

Thomas F. La Porta, Krishan K. Sabnani, Richard D. Gitlin

August 1996 **Mobile Networks and Applications**, Volume 1 Issue 1

Full text available:  [pdf\(321.40 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we present several challenges and innovative approaches to support nomadic computing. The nomadic computing environment is characterized by mobile users that may be connected to the network via wired or wireless means, many of whom will maintain only intermittent connectivity with the network. Furthermore, those accessing the network via wireless links will contend with limitations of the wireless media. We consider three general techniques for addressing these challenges: (1 ...

6 Composable ad hoc location-based services for heterogeneous mobile clients 

Todd D. Hodes, Randy H. Katz

October 1999 **Wireless Networks**, Volume 5 Issue 5

Full text available:  [pdf\(403.18 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Papers: A review of port scanning techniques 

Marco de Vivo, Eddy Carrasco, Germinal Isern, Gabriela O. de Vivo

April 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 2

Full text available:  [pdf\(661.44 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper reports the most important techniques used by **TCP port scanners**. TCP port scanners are specialized programs used to determine what TCP ports of a host have processes *listening on* them for possible connections. Since these ports characterize, in part, the amount of exposure of the hosts to potential external attacks, knowing their existence is a fundamental matter for network and/or security administrators. Moreover, as scanners are also used by hackers, administra ...

Keywords: Coordinated Scanning, Decoy Scanning, FIN Scanning, Fingerprinting, Indirect Scanning, SYN Scanning, Stealth Scanning, TCP/IP, Three-way Handshake, UDP

8 A meta-language and system for nonlocal incremental attribute evaluation in language-based editors 

Gregory F. Johnson, C. N. Fischer

January 1985 **Proceedings of the 12th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

Full text available:  [pdf\(905.91 KB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)

9 Achieving scalability and expressiveness in an Internet-scale event notification service 

Antonio Carzaniga, David S. Rosenblum, Alexander L. Wolf

July 2000 **Proceedings of the nineteenth annual ACM symposium on Principles of distributed computing**

Full text available:  [pdf\(937.62 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the design of SIENA, an Internet-scale event notification middleware service for distributed event-based applications deployed over wide-area networks. SIENA is responsible for selecting the notifications that are of interest to clients (as expressed in client subscriptions) and then delivering those notifications to the clients via access points. The key design challenge for SIENA is m ...

10 A scalable and highly available system for serving dynamic data at frequently accessed web sites 

Jim Challenger, Paul Dantzic, Arun Iyengar

November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing**

(CDROM)

Full text available:  [pdf\(195.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper describes the system and key techniques used for achieving performance and high availability at the official Web site for the 1998 Olympic Winter Games which was one of the most popular Web sites for the duration of the Olympic Games. The Web site utilized thirteen SP2 systems scattered around the globe containing a total of 143 processors. A key feature of the Web site was that the data being presented to clients was constantly changing. Whenever new results were entered into the sys ...

11 Emerging mobile and wireless networks

Upkar Varshney, Ron Vetter

June 2000 **Communications of the ACM**, Volume 43 Issue 6


Full text available:  [pdf\(609.43 KB\)](#)
 [html\(36.15 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

12 Production trees: a compact representation of parsed programs

Vance E. Waddle

January 1990 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 12 Issue 1

Full text available:  [pdf\(1.79 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#),
[review](#)

Abstract syntax trees were devised as a compact alternative to parse trees, because parse trees are known to require excessive amounts of storage to represent parsed programs. However, the savings that abstract syntax trees actually achieve have never been precisely described because the necessary analysis has been missing. Without it, one can only measure particular cases that may not adequately represent all the possible behaviors. We introduce a data structure, production tree ...

13 Session C: New issues: An architecture for building self-configurable systems

Lakshminarayanan Subramanian, Randy H. Katz

November 2000 **Proceedings of the 1st ACM international symposium on Mobile ad hoc networking & computing**

Full text available:  [pdf\(934.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Developing wireless sensor networks can enable information gathering, information processing and reliable monitoring of a variety of environments for both civil and military applications. It is however necessary to agree upon a basic architecture for building sensor network applications. This paper presents a general classification of sensor network applications based on their network configurations and discusses some of their architectural requirements. We propose a generic architecture for a s ...

14 Measurement and analysis of the error characteristics of an in-building wireless network

David Eckhardt, Peter Steenkiste

August 1996 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Applications, technologies, architectures, and protocols for computer communications**, Volume 26 Issue 4

Full text available:  [pdf\(168.08 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There is general belief that networks based on wireless technologies have much higher error rates than those based on more traditional technologies such as optical fiber, coaxial cable, or twisted pair wiring. This difference has motivated research on new protocol suites specifically for wireless networks. While the error characteristics of wired networks have been well documented, less experimental data is available for wireless LANs. In this paper we report the results of a study characterizing ...

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John Colter, Netscape Navigator

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